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APPLICATION NO.	F	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/658,178		09/09/2003	Harry W. Sarkas	2000US01 C	3345
26689	7590	03/24/2006		EXAMINER	
		OLD ALLEN &	MAYEKAR, KISHOR		
225 WEST WACKER DRIVE, SUITE 2800 CHICAGO, IL 60606			2800	ART UNIT	PAPER NUMBER
				1753	

DATE MAILED: 03/24/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

W

			Application No.	Applicant(s)					
Office Action Summary			10/658,178	SARKAS ET A	L.				
			Examiner	Art Unit					
			Kishor Mayekar	1753					
Period fo	The MAILING DATE of this communic r Reply	ation appe	ears on the cover sheet wi	th the correspondence	address				
WHIC - Exter after - If NO - Failui Any r	CRTENED STATUTORY PERIOD FOR HEVER IS LONGER, FROM THE MAN IS IN 1975	AILING DA f 37 CFR 1.136 nication. utory period will rill, by statute, o	TE OF THIS COMMUNIC 6(a). In no event, however, may a null apply and will expire SIX (6) MON cause the application to become AB	CATION. apply be timely filed THS from the mailing date of the ANDONED (35 U.S.C. § 133).	nis communication.				
Status									
1) 又	Responsive to communication(s) filed	on 09 Se	otember 2003.						
· —	•		action is non-final.						
. —	Since this application is in condition for	or allowand	ce except for formal matt	ers, prosecution as to	the merits is				
-	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.								
Dispositi	on of Claims								
4)🖂	Claim(s) 1 is/are pending in the application.								
	4a) Of the above claim(s) is/are withdrawn from consideration.								
5)	Claim(s) is/are allowed.								
6)⊠	Claim(s) <u>1</u> is/are rejected.								
7)	Claim(s) is/are objected to.								
8)□	Claim(s) are subject to restricti	on and/or	election requirement.						
Applicati	on Papers								
9)[The specification is objected to by the	Examiner.							
10)[The drawing(s) filed on is/are:	a)⊡ acce _l	pted or b) objected to □	by the Examiner.					
	Applicant may not request that any object	ion to the d	rawing(s) be held in abeyan	ce. See 37 CFR 1.85(a).				
	Replacement drawing sheet(s) including t	he correction	on is required if the drawing	s) is objected to. See 37	7 CFR 1.121(d).				
11) 🔲	The oath or declaration is objected to	by the Exa	miner. Note the attached	Office Action or form	PTO-152.				
Priority u	nder 35 U.S.C. § 119								
	Acknowledgment is made of a claim fo ☐ All b) ☐ Some * c) ☐ None of: 1. ☐ Certified copies of the priority d			119(a)-(d) or (f).					
	 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 								
	3. Copies of the certified copies of			· · · · · · · · · · · · · · · · · · ·	nal Stage				
	application from the Internation	•	*		5.12.90				
* S	ee the attached detailed Office action		, , , , , , , , , , , , , , , , , , , ,	received.					
Attachment	(s)								
	e of References Cited (PTO-892)			ummary (PTO-413)					
	e of Draftsperson's Patent Drawing Review (PT nation Disclosure Statement(s) (PTO-1449 or P		_)/Mail Date formal Patent Application (PTO-152)				
	No(s)/Mail Date <u>9/3, 3/4 & 5/4</u> .	. 2.00,007	6) 🔲 Other:	·					

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DETAILED ACTION

Specification

- 1. The disclosure is objected to because of the following informalities: the incorrect referencing "example 4" in page 8 made by the pre-amendment of Sept.
- 9, 2003. should it be -Experment 4—"?

Appropriate correction is required.

Claim Rejections - 35 USC § 112

2. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

3. Claim 1 is rejected under 35 U.S.C. 112, first paragraph, because the specification, while being enabling for a field free zone being of either (1) in a region in close proximity to a zone of charge carrier generation or (2) in a region of current conduction between field generating elements, including the surface of the field generating elements, does not reasonably provide enablement for a field free

zone being in a station different than the above. The specification does not enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the invention commensurate in scope with these claims. The above claim recites the introducing of the oxidizing gas into the plasma to form the active volume before the plasma is expanded into field-free zone. Because of the breadth of the claim, the above claimed subject matter can be interpreted as that the field-free zone can be other that the enabling field-free zone, for example. And the specification does not enabling such an interpretation.

Claim Rejections - 35 USC \$ 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 5. Claim 1 is rejected under 35 U.S.C. 102(b) as being anticipated by Pirzarda et al. (US 5,788,738). Pirzada's invention is directed to a method of producing

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nanoscale powders by quenching of vapors. Pirzada disclose in Example 5 a process comprised the steps of generating plasma and fluidizing a precursor with an oxidizing gas. The last step inherently forming the recited active volume.

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kishor Mayekar whose telephone number is (571) 272-1339. The examiner can normally be reached on Monday-Thursday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nam Nguyen can be reached on (571) 272-1342. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Kishor Mayêkar Primary Examiner

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